INTERNATIONALSEARCHREPORT

International application No.

PCT/JP 2004/016175

CLASSIFICATIONOF SUBJECT MATTER Int.Cl7 HO1L21/28, HO1L21/288, HO1L21/768, HO1L29/786, G09F9/00, G09F9/30, H05B33/04, H05B33/10, H05B33/14 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) H01L21/28, H01L21/288, H01L21/768, H01L29/786, G09F9/00, G09F9/30, H05B33/04, H05B33/10, H05B33/14 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2005, Japanese Registered Utility Model Gazette 1994-2005, Japanese Ga Containing the Utility Model 1996-2005 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category* 1-28, 47-100 Y US 6475836 B1 (SEMICONDUCTOR ENERGY LABORATORY CO., LTD.) 2002.11.05, Whole document, Figures 1-24 & JP 2000-349300 A 29-46 A 1-28, 47-100 JP 11-103069 A (SHARP CORPORATION) Y 1999.04.13, Whole document, Figures 1-5 (Family: None) 29-46 A JP 11-340129 A (SEIKO EPSON CORPORATION) 1-28, 47-100 Y 1999.12.10, Whole document, Figures 1-8 (Family: None) 29-46 Α. See patent family annex. Further documents are listed in the continuation of Box C. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "B" earlier application or patent but published on or after the inter- "X" national filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 01.2.2005 18.01.2005 Name and mailing address of the ISA/JP Authorized officer 9171 4M Ken HASEYAMA Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan Telephone No. +81-3-3581-1101 Ext. 3462

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